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METEOROLOGICAL OFFICE
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HYDROLOGICAL MEMORANDUM 14

RAINFALL OVER THE AREAS OF THE HAMPSHIRE, ISLE OF WIGHT, DORSET AND AVON RIVER BOARDS 1916—50

by

Miss H. Rowsell

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HYDROLOGICAL MEMORANDA NO. 14

RAINFALL OVER THE AREAS OF THE HAMPSHIRE, ISLE OF WIGHT, DORSET AND AVON RIVER BOARDS 1916-1950.

1. Rainfall, 1916-1950:

1.1. Introduction. The estimation of standard-period averages for the months or for the year, is carried out in three stages; the selection of sound, homogeneous records complete for the 35 years, 1916-1950, which provide arithmetic means of monthly and annual rainfall, the basic values for all other work; the estimation of standard-period, annual averages for short-period stations; the estimation of standard-period, monthly averages for stations in the second group, where these are needed for special purposes.

A detailed account of the methods developed and used in the Meteorological Office (M.O.3) to estimate standard-period averages from short-period records, is given in Hydrological Memoranda No. 5.

It is possible to process the data in a number of ways but the maps and tables are presented here in the simplest, most precise forms in order to be of use to a wide range of enquirers.

1.2. The Primary Survey, for Great Britain and Northern Ireland, of stations with complete records during 1916-1950, included some cases where the site had been changed to one with a better exposure and observations from both sites had been recorded for a few years. Attempts were made to amend the earlier readings by comparison of the data during a period of overlap, in order to have a set of values from 1916, to the date of the change, which would be representative of the later, and better, record. But since the earlier exposures were usually unsatisfactory (being over-exposed or over-sheltered), the results were mostly erratic and the amended sets of values were not homogeneous. In a few cases, small breaks in a long record were completed by using estimated values, based on a nearby station, with or without the use of a modifying factor.

Of the many records examined, monthly and annual averages were accepted for 36 stations, 19 for Hampshire, 4 for the Isle of Wight and 13 for the Avon and Dorset area. The accepted values (in inches), together with the proportions (per cent) of each monthly average to the annual average, are given in Table I together with the altitude and the National Grid reference for each station. Most of these averages were included in H.M.S.O. publication, M.O.635, "Averages of Rainfall for Great Britain and Northern Ireland, 1916-1950", some were omitted because other stations were so near.

The percentage proportion of monthly averages to the annual averages for the long-period stations were used to draw a series of twelve monthly maps from which it is possible to estimate the percentage of average annual rainfall, for any place, for each month of the year. These maps are shown as Figure 1. Values estimated for a few points between the isopercental lines have been added to give a clearer indication of the variations from place to place. The points chosen are not necessarily the same for each map.

1.3. The Secondary Survey of short-period stations was undertaken next, using records up to the time of the survey, usually into the late 1950's. Long-period stations, whose averages had been rejected from the Primary Survey because the record was not homogeneous, were examined again and averages were estimated for the later (and usually improved) part of the series of

observations. Averages based on data for less than 5 years were not usually accepted for publication. A list of the accepted averages, for the short-period stations, is given in Table II together with the altitude and National Grid reference for each. The stations are listed in an order based on natural drainage areas which will be used for the first time in British Rainfall, 1961.

These averages, together with the long-period averages listed in Table I, were plotted on Ordnance Survey Maps (scale 4 miles to the inch), and used to draw the lines of average annual rainfall, 1916-1950. The map is shown as Figure 2. The Secondary Survey is frequently revised for special areas using the most up-to-date observations for relatively new stations and the map is subject to revision from time to time. The redrawing of the isohyets usually results in greater detail and perhaps a clearer definition of a wet area as more and more observations become available from improved River Board networks of rain-gauges. Drastic changes are not expected. In Table I, II and III, with a few exceptions, the average quoted are for the records still being maintained in 1963.

1.4. Monthly Averages for a further group of stations were next estimated for use in the Monthly Weather Report and for enquiries. For this purpose some stations were chosen from those listed in Table II to supplement those listed in Table I. To find the monthly averages, the monthly proportions (per cent of annual average) were chosen from the equipercental maps (see Fig. 1) so that the total for the twelve months was 100. These monthly percentages were then used to apportion the annual average (in inches) amongst the months. The results are given in Table III.

1.5. Daily Rainfall, 1916-1950. Four of the initial 36 records which were accepted for the Primary Survey (1.2.) were analysed further. These records had regular daily entries, for the 24-hour period 0900 to 0900, for each of the 35 years, 1916-1950. Table IVa gives the 35-year totals for each day of the year (in inches) for each of the stations. Table IVb gives 1/35 of all possible totals from .17 in. to 24.67 in., thus providing a reduction table for the values in IVa to give average daily falls from "trace" to .70 in. For 29 February the reduction factor is, of course, 1/9.

These daily averages can be re-grouped as 5-day means, 7-day means, consecutive or sliding means or in whatever form suits a specific requirement.

2. Frequencies of Daily Rainfall, 1916-1950. The same set of daily values used for Table IVa were re-grouped to give frequency tables with intervals of .01 inch. These have been re-arranged in Table V, to give accumulated frequencies with intervals of .10 in. up to 2.50 in. and a wider grouping above this.

3. Extremes of Rainfall. The records for the 35-year period, 1916-1950, for the stations ued in Table IV and V were also used to find maximum and minimum values for the year and for each month and also maximum daily values for each month. These maxima and minima are given in Table VI and Table VII. Additional extremes are given in these tables to cover the 50-year period, 1911-1960.

Appendix I

Intense Falls. Falls of 2 hours or less, which have been recorded in British Rainfall and rank as "noteworthy", "remarkable" or "very rare", are listed in Appendix I.

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TABLE I. Monthly and Annual Averages of Rainfall (in inches), 1916-50
Hampshire, Isle of Wight, Avon and Dorset River Board areas

County	Station	Alt. ft.	N.G.R.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	
			HAMPSHIRE RIVER BOARD														
Hampshire	Havant Water Works	25	SU(41)711063	3.17	2.15	1.80	1.83	1.81	1.49	2.19	2.25	2.24	3.05	3.34	3.01	28.33	Inch
				11.2	7.6	6.3	6.5	6.4	5.3	7.7	7.9	7.9	10.8	11.8	10.6	100.0	%
"	Farlington Filters	151	SU(41)679061	3.04	2.08	1.80	1.80	1.79	1.51	2.23	2.31	2.28	2.99	3.27	2.94	28.04	Inch
				10.8	7.4	6.4	6.4	6.4	5.4	8.0	8.2	8.1	10.7	11.7	10.5	100.0	%
"	Southsea	7	SZ(40)640990	3.08	2.13	1.84	1.87	1.75	1.43	2.00	2.18	2.19	3.02	3.26	3.03	27.78	Inch
				11.1	7.7	6.6	6.7	6.3	5.2	7.2	7.8	7.9	10.9	11.7	10.9	100.0	%
"	Soberton	136	SU(41)596142	3.55	2.43	2.14	2.15	2.06	1.83	2.70	2.70	2.53	3.41	3.74	3.53	32.77	Inch
				10.8	7.4	6.5	6.5	6.3	5.6	8.3	8.3	7.7	10.4	11.4	10.8	100.0	%
"	Curdridge, Sunnyside	90	SU(41)539137	3.35	2.34	2.13	2.14	2.11	1.83	2.63	2.69	2.59	3.34	3.63	3.44	32.22	Inch
				10.4	7.3	6.6	6.6	6.5	5.7	8.2	8.3	8.0	10.4	11.3	10.7	100.0	%
"	Chilland	205	SU(41)526328	3.23	2.34	1.96	2.18	2.01	1.81	2.84	2.56	2.56	3.17	3.51	3.33	31.50	Inch
				10.3	7.4	6.2	6.9	6.4	5.8	9.0	8.1	8.1	10.1	11.1	10.6	100.0	%
"	Twyford P. Station	138	SU(41)493249	3.44	2.45	2.09	2.22	1.99	1.85	2.67	2.68	2.61	3.31	3.75	3.58	32.64	Inch
				10.5	7.5	6.4	6.8	6.1	5.7	8.2	8.2	8.0	10.1	11.5	11.0	100.0	%
"	Otterbourne	113	SU(41)463235	3.33	2.35	2.12	2.18	2.01	1.87	2.63	2.63	2.60	3.27	3.62	3.41	32.02	Inch
				10.4	7.3	6.6	6.8	6.3	5.9	8.2	8.2	8.1	10.2	11.3	10.7	100.0	%
"	Southampton	63	SU(41)419119	3.43	2.32	2.09	2.15	2.03	1.74	2.42	2.60	2.54	3.31	3.62	3.39	31.64	Inch
				10.8	7.3	6.6	6.8	6.4	5.5	7.7	8.2	8.0	10.5	11.5	11.7	100.0	%
"	Andover S. Works	200	SU(41)359447	3.02	2.03	1.85	2.08	2.00	1.63	2.67	2.42	2.44	3.07	3.25	3.05	29.51	Inch
				10.2	6.9	6.3	7.1	6.8	5.5	9.0	8.2	8.3	10.4	11.0	10.3	100.0	%

County	Station	Alt. ft.	N.G.R.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	
			HAMPSHIRE RIVER BOARD														
Hampshire	Houghton Lodge	112	SU(41)344332	3.19	2.34	2.02	2.23	1.92	1.82	2.53	2.37	2.47	3.46	3.54	3.48	31.37	Inch
				10.2	7.5	6.4	7.1	6.1	5.8	8.1	7.5	7.9	11.0	11.3	11.1	100.0	%
"	Timsbury P. Station	99	SU(41)346255	3.30	2.22	2.03	2.14	2.03	1.69	2.49	2.54	2.42	3.42	3.61	3.29	31.18	Inch
				10.6	7.1	6.5	6.9	6.5	5.4	8.0	8.1	7.8	11.0	11.6	10.5	100.0	%
"	*St. Mary Bourne, Bournside Station now terminated.	300		3.07	2.20	1.99	2.14	2.04	1.75	2.77	2.42	2.50	3.09	3.36	3.16	30.49	Inch
				10.1	7.2	6.5	7.0	6.7	5.8	9.1	7.9	8.2	10.1	11.0	10.4	100.0	%
			ISLE OF WIGHT RIVER BOARD														
Hampshire	Ryde	15	SZ(40)595929	3.43	2.30	1.92	1.92	1.72	1.40	2.08	2.29	2.43	3.39	3.63	3.42	29.93	Inch
				11.5	7.7	6.4	6.4	5.7	4.7	7.0	7.7	8.1	11.3	12.1	11.4	100.0	%
"	St. Catherine's Point	51	SZ(40)498753	3.36	2.15	1.94	1.95	1.84	1.38	2.14	2.14	2.37	3.38	3.63	3.29	29.57	Inch
				11.4	7.3	6.6	6.6	6.2	4.7	7.2	7.2	8.0	11.4	12.3	11.1	100.0	%
"	*Ventnor, Royal National Hospital station now terminated.	60		3.51	2.29	2.05	2.04	1.85	1.46	2.22	2.27	2.50	3.64	3.79	3.39	31.01	Inch
				11.3	7.4	6.6	6.6	6.0	4.7	7.2	7.3	8.1	11.7	12.2	10.9	100.0	%
"	Totland Bay, Aston House	140	SZ(40)325864	3.26	2.06	1.94	1.88	1.82	1.50	2.25	2.31	2.37	3.22	3.40	3.18	29.19	Inch
			AVON AND DORSET RIVER BOARD														
Wiltshire	Bishops Cannings	446	SU(41)043644	2.87	2.21	1.98	2.36	2.30	2.04	2.91	2.87	2.59	3.36	3.17	2.94	31.60	Inch
				9.1	7.0	6.3	7.5	7.3	6.4	9.2	9.1	8.2	10.6	10.0	9.3	100.0	%

* Station now terminated

TABLE I. Hampshire, Isle of Wight, Avon and Dorset River Board Areas (Contd.)

County	Station	Alt. ft.	N.G.R.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	
			AVON AND DORSET RIVER BOARD (Contd.)														
Wiltshire	Larkhill	430	SU(41)137444	2.79 9.8	2.00 7.1	1.82 6.4	1.94 6.8	1.92 6.8	1.65 5.8	2.55 9.0	2.23 7.9	2.26 8.0	3.05 10.8	3.13 11.1	2.97 10.5	28.31 100.0	Inch %
"	Fonthill House, old site	400	ST(31)926323	4.10 10.5	2.93 7.5	2.52 6.4	2.60 6.6	2.53 6.5	2.24 5.7	3.16 8.1	3.35 8.6	3.14 8.0	3.97 10.1	4.43 11.3	4.17 10.7	39.14 100.0	Inch %
"	Salisbury S. Works	147	SU(41)149293	3.05 10.1	2.13 7.1	1.94 6.5	2.09 7.0	1.92 6.4	1.73 5.8	2.40 8.0	2.45 8.1	2.45 8.1	3.17 10.5	3.46 11.5	3.27 10.9	30.06 100.0	Inch %
"	Porton	363	SU(41)210366	2.96 10.1	2.15 7.3	1.87 6.4	2.06 7.0	1.88 6.4	1.71 5.8	2.39 8.1	2.32 7.9	2.49 8.5	3.07 10.4	3.33 11.3	3.18 10.8	29.41 100.0	Inch %
"	Salisbury, Atherton House	250	SU(41)150307	3.28 10.6	2.26 7.3	1.98 6.4	2.13 6.9	1.98 6.4	1.77 5.7	2.42 7.8	2.42 7.8	2.56 8.2	3.21 10.3	3.59 11.6	3.42 11.0	31.02 100.0	Inch %
Hampshire	Bisterne	43	SU(41)151006	3.76 11.3	2.51 7.6	2.22 6.7	2.21 6.6	2.08 6.3	1.67 5.0	2.37 7.1	2.60 7.8	2.62 7.9	3.45 10.4	3.99 12.0	3.77 11.3	33.25 100.0	Inch %
Wiltshire	Stourhead	600	ST(31)778341	4.09 10.4	2.86 7.3	2.47 6.3	2.60 6.6	2.53 6.4	2.31 5.9	3.32 8.4	3.47 8.8	3.25 8.3	4.03 10.2	4.25 10.8	4.18 10.6	39.36 100.0	Inch %
Dorset	Little Westrow	252	ST(31)698107	3.64 10.7	2.55 7.5	2.31 6.8	2.23 6.5	2.27 6.6	1.63 4.8	2.64 7.7	2.71 7.9	2.64 7.7	3.60 10.5	4.12 12.1	3.84 11.2	34.18 100.0	Inch %
"	Corfe Mullen W. Works	81	SY(30)973981	3.69 10.9	2.50 7.4	2.23 6.6	2.14 6.3	2.19 6.5	1.71 5.1	2.35 7.0	2.65 7.8	2.69 8.0	3.76 11.1	4.04 11.9	3.86 11.4	33.81 100.0	Inch %
"	Bourne Valley	80	SZ(40)060924	3.57 11.4	2.28 7.3	2.08 6.6	2.02 6.4	1.91 6.1	1.58 5.0	2.23 7.1	2.49 7.9	2.53 8.0	3.49 11.1	3.78 12.0	3.48 11.1	31.44 100.0	Inch %
"	Puddletown	190	SY(30)759944	4.33 11.0	2.94 7.5	2.62 6.6	2.51 6.4	2.51 6.4	1.88 4.8	2.86 7.2	2.97 7.5	3.19 8.1	4.15 10.5	4.94 12.5	4.54 11.5	39.44 100.0	Inch %

TABLE I. Hampshire, Isle of Wight, Avon and Dorset River Board Areas (Contd.)

County	Station	Alt. ft.	N.G.R.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	
			AVON AND DORSET RIVER BOARD (Contd.)														
Dorset	Dorchester W. Works	312	SY(30)684905	4.10	2.88	2.62	2.39	2.36	1.84	2.89	3.03	3.32	4.15	4.71	4.34	38.63	Inch
				10.6	7.5	6.8	6.2	6.1	4.8	7.5	7.8	8.6	10.7	12.2	11.2	100.0	%
"	Creech Grange	228	SY(30)911823	4.18	2.76	2.52	2.29	2.32	1.84	2.67	2.91	3.18	4.07	4.46	4.35	37.55	Inch
				11.1	7.4	6.7	6.1	6.2	4.9	7.1	7.7	8.5	10.8	11.9	11.6	100.0	%
"	Weymouth	16	SY(30)676791	3.19	2.32	2.02	1.80	1.95	1.45	2.16	2.18	2.50	3.23	3.75	3.49	30.04	Inch
				10.6	7.7	6.7	6.0	6.5	4.8	7.2	7.3	8.3	10.8	12.5	11.6	100.0	%
"	Abbotsbury, East Cottage	140	SY(30)578852	3.38	2.38	2.26	2.00	2.15	1.62	2.44	2.44	2.72	3.39	3.73	3.52	32.03	Inch
				10.6	7.4	7.1	6.2	6.7	5.1	7.6	7.6	8.5	10.6	11.6	11.0	100.0	%
"	Beaminster	183	ST(31)482011	4.36	3.02	2.67	2.49	2.61	1.97	3.04	3.14	3.21	4.14	4.84	4.58	40.07	Inch
				10.9	7.6	6.7	6.2	6.5	4.9	7.6	7.8	8.0	10.3	12.1	11.4	100.0	%
"	Bridport, Island View	60	SY(30)474936	3.57	2.48	2.23	2.07	2.29	1.72	2.55	2.74	2.96	3.59	3.89	3.58	33.67	Inch
				10.6	7.4	6.6	6.1	6.8	5.1	7.6	8.1	8.8	10.7	11.6	10.6	100.0	%
Hampshire	*Fordingbridge Dockens	140	SU(41)196109	3.60	2.42	2.18	2.18	1.99	1.83	2.41	2.63	2.57	3.39	3.92	3.56	32.68	Inch
				11.0	7.4	6.7	6.7	6.1	5.6	7.4	8.0	7.8	10.4	12.0	10.9	100.0	%

* Station now terminated

TABLE II. Estimated Annual Averages of Rainfall (in inches) 1916-1950
for Short Period Stations
Hampshire, Isle of Wight, Avon and Dorset River Board Areas

County	Station	Annual Average (in.)	Alt. ft.	N.G.R.
	HAMPSHIRE AND ISLE OF WIGHT			
Hampshire	Ditcham Park	39.48	555	SU(41)748177
"	Idsworth, Water Tower	33.30	202	SU(41)729114
"	Farlington Reservoir	29.40	117	SU(41)679060
"	Farlington Power Station	29.08	78	SU(41)678058
"	Catherington Reservoir	35.56	428	SU(41)696146
"	Southwick	31.26	150	SU(41)637076
"	Upper Beckford Farm	31.97	112	SU(41)632110
"	Fareham Water Works	32.07	36	SU(41)589071
"	Wintershill Hall	31.81	250	SU(41)527184
"	Upper Swanmore	34.06	315	SU(41)581174
"	Woolston Depot	30.50	20	SU(41)435104
"	Bishops Sutton	32.59	255	SU(41)605319
"	Winchester, Bereweeke Road	32.42	245	SU(41)475304
"	Winchester	31.97	124	SU(41)484300
"	Winchester, Romsey Road	31.23	270	SU(41)475294
"	Otterbourne	31.56	80	SU(41)468225
"	Eastleigh	28.22	35	SU(41)449168
"	South Hill Reservoir	30.64	201	SU(41)423159
"	Portswood S. Works	29.75	15	SU(41)434146
Hampshire	Manydown Park	31.25	415	SU(41)584527
"	Overton	31.44	340	SU(41)519508
"	Dunley Manor	32.04	415	SU(41)452535
"	Linkenholt	35.21	670	SU(41)362581
Wiltshire	Conholt Park	35.05	720	SU(41)362550
Hampshire	Wonston Manor	29.61	233	SU(41)471381
"	Andover Water Works	28.86	205	SU(41)368467
"	Leckford	31.56	385	SU(41)393365
"	Sparsholt	33.54	370	SU(41)427319
"	Chilbolton Down	32.55	345	SU(41)409368
"	Hursley, Merdon Manor	32.84	385	SU(41)410266
"	Embley Gardens	32.49	125	SU(41)323208
"	Bartley Nurseries	26.51	95	SU(41)310131
"	Exbury	30.90	60	SU(41)425001
"	Lymington	31.84	57	SZ(40)319952
"	Holmsley	35.25	212	SZ(40)227998
"	Chillerton Water Works	33.95	135	SZ(40)490844
"	Carisbrooke Water Works	33.14	57	SZ(40)487881
"	Knighton Water Works	33.31	60	SZ(40)567868
"	Shanklin, Victoria Avenue	36.34	170	SZ(40)581812
"	Sandown Power Station	32.80	20	SZ(40)589849
"	Sandown	30.36	13	SZ(40)602844
"	Shanklin	35.55	180	SZ(40)581808
"	Ventnor Park	32.44	443	SZ(40)560774
"	Freshwater Water Works	30.01	10	SZ(40)347858
"	Freshwater Power Station	29.60-	10	SZ(40)341871
"	Cowes Water Works	32.26	160	SZ(40)490952

TABLE II. (Contd.)
Hampshire, Isle of Wight, Avon and Dorset River Board Areas

County	Station	Annual Average (in.)	Alt. ft.	N.G.R.
	AVON AND DORSET			
Hampshire	Christchurch, Harrow Lodge	32.71	135	SZ(40)197971
Wiltshire	Woodborough	32.07	410	SU(41)115599
"	Everleigh	31.21	560	SU(41)201539
"	Boscombe Down	28.46	417	SU(41)172393
"	Dinton	32.12	300	SU(41)013316
"	Wilton, Stone Lodge	33.18	175	SU(41)094310
"	Maiden Bradley House	39.13	630	ST(31)803387
"	Crockerton Power Station	36.95	450	ST(31)855423
"	Fisherton de la Mere	32.72	340	ST(31)998389
"	Steeple Langford	32.51	240	ST(41)039374
"	Maddinton	29.62	285	SU(41)068443
"	Salisbury, Folkestone Road	32.67	190	SU(41)139288
"	Broad Chalke	36.05	270	SU(41)039253
Hampshire	Furze Hill	33.61	150	SU(41)167112
"	Linwood	35.12	130	SU(41)179095
"	Hightown	33.38	250	SU(41)182056
Wiltshire	Charnage	35.33	420	ST(31)833319
Dorset	Gillingham	31.15	270	ST(31)812270
"	Stour Provost	30.08	250	ST(31)792215
Somerset	Horsington	31.71	460	ST(31)686233
Dorset	Hazelbury Bryan	35.78	280	ST(31)736100
"	Glanvilles Wootton Manor	35.35	310	ST(31)681085
"	Margaret Marsh	28.75	184	ST(31)821189
"	Shaftsbury	32.85	680	ST(31)861228
"	Okeford Manor	34.84	260	ST(31)838127
"	Blandford, East Street	34.12	120	ST(31)887063
"	Blandford, Kings Road	34.21	195	ST(31)891068
"	Corfe Mullen, Plantation	34.55	210	SY(30)976963
"	Walsford Bridge Power Station	33.42	70	SU(41)006009
"	Stape Hill	32.78	110	SU(41)057000
"	Broadstone	33.23	160	SZ(40)004955
Hampshire	Hurn	30.46	33	SZ(40)117978
"	Hurnbridge	29.99	19	SZ(40)126967
"	Christchurch, Compressor Station	28.59	5	SZ(40)157924
Dorset	Alderney Reservoir	31.51	225	SZ(40)045950
Hampshire	Bournemouth, Rothesay Road	30.98	135	SZ(40)074923
"	Bournemouth	31.21	130	SZ(40)071917
"	Bournemouth, East Avenue	31.12	143	SZ(40)077926
Dorset	Trigon	34.22	60	SY(30)886889
"	Wynford House	44.63	410	SY(30)575951
"	Minterne House	40.20	170	ST(31)659040
"	Warmwell	35.87	134	SY(30)749873
"	Swanage	30.56	37	SZ(40)030794
"	Friar Waddon	35.08	214	SY(30)652857
"	Portland Bill	26.59	35	SY(30)677683
"	Portland	28.93	310	SY(30)687717
"	Abbotsbury, West End	31.65	160	SY(30)565851
"	Litton Cheney	33.99	190	SY(30)550902
South Devonshire	Pinhay	35.77	450	SY(30)315913

TABLE III. Monthly Averages of Rainfall, 1916-1950, estimated for short period stations (in inches)
Hampshire, Isle of Wight, Avon and Dorset River Board Areas

County	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
Hampshire	Winchester	3.29	2.37	1.98	2.24	2.05	1.85	2.75	2.59	2.59	3.23	3.61	3.42	31.97
"	Leckford	3.22	2.37	2.02	2.24	1.92	1.83	2.56	2.37	2.49	3.47	3.57	3.50	31.56
"	Sandown	3.49	2.28	1.97	1.97	1.76	1.43	2.16	2.22	2.46	3.46	3.73	3.43	30.36
"	Ventnor Park	3.66	2.40	2.14	2.14	1.95	1.52	2.33	2.37	2.63	3.73	3.96	3.60	32.43
"	*Newport, Recreation Ground	3.46	2.24	1.97	1.97	1.85	1.45	2.18	2.33	2.46	3.37	3.64	3.40	30.32
Wiltshire	Boscombe Down	2.90	2.05	1.79	1.96	1.85	1.62	2.48	2.31	2.36	2.93	3.19	3.02	28.46
Dorset	Gillingham	3.24	2.27	1.99	2.02	2.02	1.78	2.59	2.68	2.59	3.18	3.49	3.30	31.15
"	Shaftsbury	3.45	2.46	2.14	2.14	2.14	1.87	2.66	2.79	2.66	3.35	3.71	3.48	32.85
Hampshire	Hurn	3.44	2.28	2.04	1.98	1.89	1.52	2.16	2.38	2.44	3.23	3.66	3.44	30.46
"	Bournemouth	3.56	2.28	2.06	2.00	1.90	1.56	2.22	2.47	2.50	3.46	3.74	3.46	31.21
Dorset	Portland Bill	2.90	2.07	1.78	1.57	1.76	1.33	1.89	1.91	2.15	2.90	3.27	3.06	26.59

* Station now terminated

TABLE IVa. 35 year Daily Totals of Rainfall, 1916-1950, in inches
Southampton

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.88	5.24	2.22	3.30	1.86	3.29	4.95	4.99	2.81	2.20	7.19	5.89
2	3.33	4.85	1.64	4.48	1.75	1.56	3.64	3.70	5.27	2.29	3.57	2.66
3	3.02	4.02	2.94	4.94	2.88	1.24	1.83	2.61	3.91	5.00	3.40	2.02
4	3.02	3.33	4.09	2.00	1.91	3.37	2.35	4.68	3.52	3.13	3.44	3.46
5	2.66	3.10	3.67	3.07	2.81	1.92	4.28	3.52	3.19	3.50	5.88	2.93
6	4.92	2.77	3.40	2.43	1.67	3.97	2.99	3.56	3.04	2.39	4.30	2.89
7	2.41	3.43	2.61	2.02	4.42	1.94	1.92	3.88	1.82	3.48	4.65	5.88
8	2.86	2.67	1.21	1.91	1.89	1.51	2.05	1.64	1.77	3.70	3.97	4.44
9	3.53	2.00	1.21	2.12	1.51	2.09	3.02	1.38	2.81	2.84	5.00	3.57
10	5.55	1.97	2.90	2.05	3.20	2.03	4.81	1.62	2.22	1.94	3.14	4.44
11	4.39	1.39	1.48	2.46	1.09	2.25	1.86	2.09	1.34	3.65	6.01	2.73
12	3.70	3.07	2.06	2.20	2.35	3.21	1.37	1.77	4.93	1.70	1.91	1.61
13	3.54	1.53	2.83	3.85	1.21	1.35	3.73	1.20	2.86	3.74	4.40	3.93
14	2.91	2.07	2.31	3.15	1.26	2.17	3.71	2.43	4.81	2.79	3.53	3.75
15	4.96	1.39	1.76	2.89	2.42	1.60	5.30	2.55	1.21	2.44	4.94	5.85
16	2.59	2.63	3.39	2.43	1.01	1.88	0.54	3.05	3.08	3.78	5.75	3.12
17	2.74	3.38	1.87	2.09	1.73	1.25	3.58	2.37	3.57	4.29	3.08	1.88
18	5.57	1.42	1.71	1.39	2.43	3.60	2.27	2.99	3.16	2.39	6.17	3.75
19	2.31	2.16	3.27	1.99	0.94	1.47	1.96	2.73	4.36	4.34	3.90	2.18
20	3.83	1.74	2.60	2.28	1.80	2.55	2.89	4.88	3.83	6.32	5.55	2.74
21	3.44	2.49	1.42	1.94	2.24	0.55	3.13	2.68	2.88	4.07	3.43	4.74
22	4.00	1.81	2.45	1.07	1.00	1.79	2.04	3.28	3.35	7.02	4.04	3.85
23	3.18	2.85	1.87	2.21	3.33	1.45	1.83	4.52	2.50	6.13	5.16	3.27
24	3.30	3.43	2.19	2.23	2.41	1.42	2.03	3.11	2.68	4.23	2.98	4.00
25	4.39	4.95	2.20	4.76	4.19	1.11	2.20	2.11	3.01	5.09	2.57	3.69
26	3.66	5.64	1.18	2.18	3.13	1.97	3.99	1.48	1.04	5.45	2.67	4.99
27	3.88	2.78	2.49	2.52	4.47	1.83	2.59	3.85	1.26	3.77	4.56	5.96
28	5.98	2.07	2.57	1.49	2.57	3.33	2.99	3.31	2.29	1.62	3.93	4.33
29	3.85	1.11	1.81	1.70	3.34	1.43	1.49	3.39	3.79	3.67	2.32	3.87
30	4.70	-	2.53	1.39	2.06	3.19	2.11	4.33	2.60	3.38	5.18	5.77
31	5.70	-	4.19	-	2.00	-	1.46	1.39	-	5.57	-	4.89

TABLE IVa. 35 year Daily Totals of Rainfall, 1916-1950, in inches
Andover

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.84	4.28	1.94	2.35	1.78	2.58	2.66	3.36	2.68	1.85	6.59	5.53
2	2.87	3.41	1.10	3.96	1.44	1.10	3.26	4.16	4.90	2.38	3.80	2.44
3	2.48	3.38	1.43	4.17	2.89	1.57	3.11	2.78	4.37	3.85	3.72	1.75
4	2.45	3.03	2.84	2.53	1.89	2.46	2.79	2.83	2.16	2.76	3.64	4.01
5	2.68	2.44	3.69	2.85	3.38	1.88	4.66	1.83	2.21	3.91	5.94	2.40
6	4.11	2.23	1.87	2.80	1.37	2.59	3.80	3.71	2.07	2.59	5.02	2.97
7	2.13	3.25	1.81	1.71	4.27	1.04	1.90	4.58	2.46	2.52	3.81	4.07
8	2.46	2.33	.99	1.67	1.88	1.84	2.66	1.84	2.80	4.27	3.94	3.30
9	3.18	2.47	.85	1.95	1.41	3.13	2.93	2.18	3.39	2.21	4.59	3.28
10	4.44	1.60	2.41	4.01	2.17	1.62	3.36	2.10	1.26	2.13	3.15	4.08
11	4.78	1.88	1.91	1.66	1.22	1.75	2.27	1.33	1.83	3.42	3.87	2.94
12	2.97	3.62	1.34	2.01	1.90	2.65	1.74	2.44	3.89	2.22	1.70	1.39
13	2.51	1.55	2.32	3.32	.94	1.41	3.31	1.71	2.62	2.97	4.68	3.42
14	2.68	2.24	1.52	3.22	.87	1.56	4.70	2.25	4.29	2.35	2.72	3.59
15	3.57	1.21	.58	2.33	3.97	1.68	6.12	2.43	1.31	1.94	3.23	4.54
16	1.96	2.40	3.68	2.43	.94	1.53	1.30	3.36	2.89	3.33	4.68	3.16
17	3.11	2.83	1.53	3.16	1.67	1.42	3.79	2.12	3.67	3.81	2.60	1.30
18	5.01	1.52	1.91	1.67	1.55	2.51	2.72	3.11	2.86	2.24	6.02	3.77
19	2.53	1.73	3.75	2.17	1.53	1.19	1.74	2.90	5.36	3.38	4.40	2.20
20	3.01	1.49	2.39	1.96	4.29	2.30	3.18	2.82	4.34	5.87	4.83	2.40
21	3.13	2.50	1.52	1.91	1.90	1.46	3.31	2.16	2.96	4.42	3.18	4.12
22	3.71	1.97	2.40	.56	1.92	2.07	3.18	4.49	2.71	5.27	2.68	3.83
23	2.83	2.07	2.39	1.87	3.90	1.12	2.34	3.26	3.07	5.36	3.91	3.28
24	4.24	4.67	1.81	1.99	2.13	1.54	2.06	1.65	2.42	4.55	3.32	3.26
25	3.43	4.51	1.20	3.40	4.23	.80	3.60	2.28	2.10	4.53	2.09	4.06
26	2.81	4.65	1.43	2.12	3.90	2.28	4.20	2.57	1.47	6.00	2.42	4.23
27	2.69	2.83	2.62	2.66	2.92	1.56	3.39	3.08	1.52	3.55	4.08	4.76
28	5.73	1.54	3.31	1.90	2.38	3.27	5.02	3.55	1.50	1.84	3.62	4.54
29	5.12	.37	2.20	1.83	3.33	1.29	2.14	3.90	3.70	3.25	3.64	2.88
30	3.88	-	1.58	2.66	1.83	3.13	2.54	2.72	2.43	3.52	4.40	6.09
31	6.45	-	3.47	-	2.05	-	1.48	1.70	-	4.82	-	3.85

TABLE IVa. 35 year Daily Totals of Rainfall, 1916-1950, in inches
Corfe Mullen

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.36	5.78	2.93	2.61	2.10	2.43	3.11	4.32	4.09	2.18	6.74	7.99
2	3.97	5.40	1.78	4.83	1.56	.91	3.46	3.23	5.17	1.95	4.23	3.46
3	3.84	4.40	3.31	5.02	2.93	1.65	3.62	3.17	3.95	5.28	4.24	2.61
4	2.75	3.11	5.12	3.39	2.11	2.81	1.73	4.23	2.42	2.65	4.30	4.22
5	3.64	3.01	3.34	2.90	3.46	2.27	4.96	3.97	1.57	2.50	7.11	3.13
6	4.97	2.75	2.95	2.82	1.66	3.63	2.67	3.06	1.93	2.37	5.81	3.27
7	2.40	3.75	2.52	1.84	3.14	1.54	1.68	3.81	1.43	3.63	5.25	5.24
8	3.09	2.94	1.20	1.99	2.08	2.11	2.36	2.61	2.40	3.61	5.26	4.37
9	4.57	2.45	1.28	2.39	1.30	3.14	1.56	1.65	3.53	2.86	5.50	4.07
10	5.65	1.81	3.31	2.52	3.04	2.13	4.48	2.03	2.81	2.54	2.42	5.62
11	4.65	2.07	1.82	2.12	1.69	1.47	2.47	1.82	1.36	4.67	5.60	2.99
12	4.94	3.59	1.87	2.12	3.08	2.27	1.23	2.27	4.34	2.03	2.35	1.23
13	3.28	1.55	2.71	3.38	.55	1.42	2.95	1.63	2.55	4.62	4.62	4.01
14	3.46	2.67	2.00	3.39	1.28	1.21	4.28	1.54	4.44	3.59	2.84	5.36
15	4.81	1.67	1.63	3.23	1.90	3.36	4.71	2.21	1.10	3.13	3.61	5.06
16	2.41	3.23	3.05	2.21	1.19	1.72	1.06	3.27	4.18	4.12	7.42	4.12
17	3.08	3.26	2.38	2.38	2.29	1.43	3.38	2.37	3.32	3.48	5.45	2.47
18	5.77	1.27	1.96	1.52	1.87	2.16	2.24	3.62	4.08	3.11	6.01	4.33
19	3.83	1.99	3.48	1.78	1.49	1.88	2.43	2.07	4.85	5.22	6.13	2.76
20	3.60	2.38	2.33	1.82	2.49	2.36	2.41	5.36	4.11	7.33	6.13	3.50
21	2.82	3.35	1.98	1.30	1.95	.83	2.41	3.77	4.35	5.34	4.03	4.79
22	4.32	2.33	3.41	1.01	1.54	1.28	1.81	2.93	2.99	8.05	3.73	4.88
23	2.97	2.04	2.57	2.72	3.61	1.23	1.79	2.77	2.86	6.36	5.89	3.88
24	3.65	5.24	2.29	1.98	2.11	1.76	2.19	3.59	3.05	5.76	2.80	4.22
25	5.29	4.46	1.85	3.64	5.07	1.75	1.91	3.31	2.50	4.29	3.51	4.09
26	5.11	5.35	1.62	1.80	4.62	1.62	3.26	2.29	.95	5.57	2.90	5.60
27	3.80	2.76	2.20	2.45	5.16	2.55	3.14	3.59	2.47	4.73	5.04	5.71
28	6.91	1.75	2.35	2.33	2.44	1.72	3.68	3.11	2.57	1.68	5.62	4.82
29	4.33	1.90	2.62	1.23	3.92	1.39	1.45	4.54	4.99	5.48	2.43	4.84
30	4.33	-	2.58	1.86	1.77	3.54	2.55	3.33	3.78	3.86	4.55	5.93
31	5.49	-	4.42	-	1.96	-	1.40	1.12	-	8.78	-	5.45

TABLE IVa. 35 year Daily Totals of Rainfall, 1916-1950, in inches
Beaminster

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.12	5.88	2.31	3.28	1.97	4.12	5.00	5.00	4.82	2.65	8.44	7.96
2	4.00	6.28	2.04	5.29	1.80	1.26	4.69	3.72	5.88	2.03	4.62	4.00
3	4.75	4.86	2.69	4.86	3.71	1.83	3.21	3.48	5.17	4.41	6.83	2.59
4	2.84	3.96	4.21	3.44	3.22	2.76	2.49	3.80	2.93	3.89	5.03	6.63
5	3.90	3.61	4.01	3.72	4.18	2.77	3.97	5.54	2.54	4.39	7.86	2.70
6	5.87	3.61	3.08	2.88	2.21	3.58	4.41	3.02	3.31	3.17	6.19	5.33
7	2.74	4.65	3.32	2.30	3.42	2.18	2.49	3.02	3.11	6.29	5.57	7.96
8	3.44	4.60	2.29	2.79	1.80	2.35	3.67	3.36	2.68	4.21	5.12	5.08
9	5.57	3.31	1.33	2.71	2.38	2.04	3.17	2.37	3.07	2.47	5.62	4.23
10	7.30	2.92	3.61	2.37	3.42	1.75	3.19	2.52	2.23	3.34	3.50	7.80
11	4.74	1.98	2.40	2.13	2.65	2.34	2.73	2.48	1.78	4.54	7.34	4.09
12	6.62	3.27	2.74	1.77	3.11	2.36	1.67	2.64	5.06	2.24	2.59	2.43
13	4.21	1.19	3.67	4.67	0.89	1.03	3.47	2.51	4.25	3.87	5.81	4.68
14	4.94	2.75	2.45	4.40	2.31	2.26	5.69	2.10	5.26	3.56	5.38	6.78
15	5.39	2.03	2.27	4.21	3.00	3.09	6.23	2.35	2.35	3.26	3.26	6.40
16	3.21	3.83	4.49	2.75	2.92	2.94	1.35	2.11	4.25	5.52	7.10	4.60
17	3.85	3.83	2.49	2.86	4.71	1.81	6.16	3.03	5.13	3.65	6.64	3.05
18	5.50	1.97	2.87	1.94	2.29	2.56	2.93	4.76	4.23	3.51	7.31	4.31
19	3.91	2.54	4.14	2.48	1.82	2.00	2.73	2.83	5.50	3.54	6.97	3.09
20	4.95	3.08	2.41	2.05	3.60	3.22	3.01	6.60	4.30	8.77	5.69	4.97
21	3.62	3.84	2.73	1.70	2.06	0.99	3.74	3.20	4.63	6.34	4.64	5.92
22	5.86	3.04	4.45	1.52	2.26	2.87	4.21	2.94	4.01	8.27	4.03	5.82
23	3.09	2.93	2.51	3.07	4.79	0.82	2.08	3.77	2.66	7.35	7.24	4.12
24	4.20	4.60	3.00	2.88	2.33	1.34	2.87	3.55	3.38	6.20	4.01	4.46
25	6.38	6.56	2.14	3.93	4.63	2.42	3.16	5.06	2.39	5.17	3.68	4.95
26	6.13	8.18	1.95	1.90	4.54	1.49	2.37	2.70	2.93	6.44	4.09	5.86
27	3.92	3.17	2.94	2.70	4.71	2.23	4.90	4.72	2.77	6.18	7.67	5.40
28	8.56	1.82	3.51	2.59	1.46	2.33	4.10	3.89	2.57	2.43	6.52	6.39
29	4.18	1.49	3.11	2.34	4.43	2.08	1.12	7.62	4.45	5.85	3.60	4.96
30	5.81	-	2.53	1.58	2.55	4.30	3.74	3.65	4.49	5.20	5.00	7.53
31	5.92	-	5.64	-	2.01	-	1.89	1.52	-	6.34	-	6.12

Table IVb Rainfall totals in inches, divided by 35, thus giving 35-year means ranging from 'trace' to .70 in., for use with table IVa.

Totals in inches x			35 yr means X/35		Totals in inches x			35 yr means x/35
	-	.17	'trace'		12.43	-	12.77	.36
.18		.52	.01		12.78	-	13.12	.37
.53	-	.87	.02		13.13	-	13.47	.38
.88	-	1.22	.03		13.48	-	13.82	.39
1.23	-	1.57	.04		13.83	-	14.17	.40
1.58	-	1.92	.05		14.18	-	14.52	.41
1.93	-	2.27	.06		14.53	-	14.87	.42
2.28	-	2.62	.07		14.88	-	15.22	.43
2.63	-	2.97	.08		15.23	-	15.57	.44
2.98	-	3.32	.09		15.58	-	15.92	.45
3.33	-	3.67	.10		15.93	-	16.27	.46
3.68	-	4.02	.11		16.28	-	16.62	.47
4.03	-	4.37	.12		16.63	-	16.97	.48
4.38	-	4.72	.13		16.98	-	17.32	.49
4.73	-	5.07	.14		17.33	-	17.67	.50
5.08	-	5.42	.15		17.68	-	18.02	.51
5.43	-	5.77	.16		18.03	-	18.37	.52
5.78	-	6.12	.17		18.38	-	18.72	.53
6.13	-	6.47	.18		18.73	-	19.07	.54
6.48	-	6.82	.19		19.08	-	19.42	.55
6.83	-	7.17	.20		19.43	-	19.77	.56
7.18	-	7.52	.21		19.78	-	20.12	.57
7.53	-	7.87	.22		20.13	-	20.47	.58
7.88	-	8.22	.23		20.48	-	20.82	.59
8.23	-	8.57	.24		20.83	-	21.17	.60
8.58	-	8.92	.25		21.18	-	21.52	.61
8.93	-	9.27	.26		21.53	-	21.87	.62
9.28	-	9.62	.27		21.88	-	22.22	.63
9.63	-	9.97	.28		22.23	-	22.57	.64
9.98	-	10.32	.29		22.58	-	22.92	.65
10.33	-	10.67	.30		22.93	-	23.27	.66
10.68	-	11.02	.31		23.28	-	23.62	.67
11.03	-	11.37	.32		23.63	-	23.97	.68
11.38	-	11.72	.33		23.98	-	24.32	.69
11.74	-	13.07	.34		24.33	-	24.67	.70
12.08	-	12.42	.35					

TABLE V. Accumulated Frequencies of Daily Rainfall Amounts, (in inches), 1916-1950

SOUTHAMPTON

Daily Totals	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	All months
2.50													
2.40													
2.30													
2.20													
2.10							1		1				2
2.00						1	2		2				5
1.90						1	2		2				5
1.80						2	3		2				7
1.70						2	3	1	2			1	9
1.60	1					2	3	1	2			1	10
1.50	1					2	3	1	2			1	10
1.40	1					2	3	1	2	1	2	2	14
1.30	2	1			1	2	4	1	3	3	4	4	25
1.20	2	1			3	3	6	2	4	5	6	7	39
1.10	3	1			3	3	6	8	4	5	10	8	51
1.00	3	3			6	3	9	10	7	7	18	10	76
0.90	4	6	2	1	6	3	10	12	10	15	19	13	101
0.80	6	9	3	3	8	6	13	17	15	21	28	16	145
0.70	10	16	10	7	11	10	20	25	17	30	36	19	211
0.60	20	21	19	13	19	13	24	30	21	40	47	28	295
0.50	43	41	27	23	28	18	30	40	34	51	60	40	435
0.40	66	54	48	11	34	29	46	62	58	83	100	80	671
0.30	118	81	67	31	53	44	69	80	79	112	124	114	972
0.20	191	108	105	51	97	91	121	125	124	180	184	182	1559
0.10	253	183	149	131	149	131	165	170	173	228	236	248	2216
0.005	643	471	491	818	446	383	457	456	469	528	578	605	6345
*0.004	442	518	594	232	639	667	628	629	581	557	472	408	6439
Total No. of days	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days.

TABLE V. Accumulated Frequencies of Daily Rainfall Amounts, (in inches), 1916-1950

ANDOVER

Daily Totals	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	All months
2.60									1				1
2.50									1				1
2.40									1				1
2.30									1				1
2.20							1		1				2
2.10							1		1				2
2.00							1		1				2
1.90							1		1				2
1.80						1	1		1				3
1.70					1	1	2		1				5
1.60		1			1	1	2	2	1				8
1.50		1			1	2	2	2	1		1		10
1.40		1			1	2	2	4	3	1	1		15
1.30	1	1			2	2	3	5	3	2	2		21
1.20	1	2			4	2	3	5	4	5	2		28
1.10	1	4	1		4	2	6	5	6	5	4	3	41
1.00	4	4	1	2	6	3	6	6	11	5	9	6	63
0.90	6	6	3	5	10	4	9	7	12	9	17	11	99
0.80	12	11	4	6	11	5	14	10	14	18	25	16	146
0.70	17	14	7	12	18	8	25	23	17	32	37	22	232
0.60	26	22	16	16	26	9	38	34	28	45	56	36	352
0.50	42	30	22	21	35	14	55	43	41	62	72	54	471
0.40	79	51	43	42	48	25	79	59	64	91	97	85	763
0.30	125	79	73	74	75	55	108	95	89	128	143	135	179
0.20	200	116	114	137	114	107	164	142	137	196	206	193	1826
0.10	323	221	194	241	200	178	251	239	233	286	293	311	2970
0.005	575	426	400	441	404	356	449	429	442	493	531	545	5491
*0.004	510	563	685	609	681	694	636	656	608	592	519	540	7293
Total No. of days	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

*Including rainless days.

TABLE V. Accumulated Frequencies of Daily Rainfall Amounts (in inches), 1916-1950

Corfe Mullen

Daily Totals	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	All months
2.50													
2.40							1						1
2.30							1				1		2
2.20							1				1		2
2,10							1	1			1		3
2.00		1					1	1	1	1	1		6
1.90		1					1	1	1	2	1		7
1.80		1					1	1	2	4	1	1	11
1.70		1					2	1	2	5	2	2	15
1.60		1				1	2	2	3	6	3	3	21
1.50	1	1				2	2	2	3	6	5	3	25
1.40	1	1			1	2	3	4	4	7	6	3	32
1.30	1	1		1	1	2	4	4	6	8	9	5	42
1.20	2	1		2	1	2	6	6	8	8	12	7	55
1.10	5	2		2	3	2	6	8	8	11	17	9	73
1.00	6	6	3	2	5	3	8	14	9	15	23	12	106
0.90	13	10	5	3	5	5	11	19	10	19	30	17	147
0.80	20	13	10	5	6	6	13	21	15	29	38	24	200
0.70	32	23	18	12	10	8	19	26	21	44	50	31	294
0.60	42	32	25	17	19	19	23	37	34	62	70	50	430
0.50	73	46	38	26	30	28	37	56	57	80	84	77	632
0.40	117	70	63	50	53	41	58	73	78	105	127	110	945
0.30	168	92	93	82	88	67	97	103	111	156	172	174	1403
0.20	228	156	138	130	142	101	133	143	151	208	229	243	2002
0.10	337	243	222	238	222	172	219	227	245	310	316	346	3097
0.005	606	428	424	436	416	342	414	431	431	523	535	578	5564
*0.004	479	561	661	614	669	708	671	654	619	562	515	507	7220
Total No. of days	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days.

TABLE V. Accumulated Frequencies of Daily Rainfall Amounts (in inches), 1916-1950

BEAMINSTER

Daily Totals	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	All months
≥ 3.10								1					1
2.50								1					1
2.40								1					1
2.30							1	1					2
2.20							1	1			1		3
2.10							1	1			1		3
2.00							1	1			3		5
1.90							2	1	2		4		9
1.80						1	3	1	2		6		13
1.70						1	3	1	3	1	6	3	18
1.60		1			1	3	4	3	3	2	9	3	29
1.50	1	2			1	3	4	7	3	3	12	3	39
1.40	2	4			1	3	5	7	3	5	16	4	50
1.30	3	5	2		1	3	9	11	5	5	18	6	68
1.20	5	6	2	1	2	3	9	14	8	9	20	8	79
1.10	9	7	3	2	2	4	9	16	11	13	27	11	114
1.00	11	12	9	3	5	4	12	19	13	19	35	18	160
0.90	20	15	10	6	12	8	16	21	15	30	41	27	221
0.80	31	22	12	8	16	8	24	28	21	46	51	43	310
0.70	50	34	22	16	24	13	31	34	39	57	66	58	444
0.60	70	44	37	26	32	23	45	47	46	68	82	75	595
0.50	92	62	57	41	44	33	56	61	64	99	105	105	819
0.40	137	94	70	57	74	52	82	82	89	128	146	149	1160
0.30	191	126	107	92	108	71	114	117	126	165	189	195	1601
0.20	253	166	156	156	156	115	168	167	188	238	254	264	2281
0.10	379	256	243	248	245	185	276	257	285	326	359	374	3433
≥ 0.005	681	519	503	520	480	398	497	518	520	582	609	645	6472
≤ *0.004	404	470	582	530	605	652	588	567	530	503	441	440	6312
Total No. of days	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days.

TABLE VI. Maximum and Minimum Monthly and Annual Totals of Rainfall, (in inches), 1916-1950, with supplementary list covering extremes for the 50-year period, 1911-1960

		Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
	(							1918)						
	(	1937	1923	1947	1920	1932	1935	1920)	1931	1927	1949	1929	1934	1947
SOUTHAMPTON	(	6.76	5.93	6.71	3.43	5.70	4.18	5.27	5.61	6.03	8.55	9.06	9.43	61.82
1916-1950	(MAX													
	(													
	(	1949)												
	(	1950)	1934	1929	1938	1919	1921	1949	1940	1929	1950	1945	1926	1921
	(MIN	0.79	0.11	0.17	0.03	0.35	0.14	0.32	0.00	0.42	0.53	0.32	0.39	15.97
	(		1951				1912		1960			1951	1914	
EXTREMES	(MAX		6.04				4.38		5.99			9.24	9.89	
1911-1960	(													
	(	1914	1956			1956		1911		1959				
	(MIN	0.65	0.10			0.28		0.13		0.08				
	(	1937)								1927)				
ANDOVER	(	1943)	1937	1947	1920	1932	1935	1939	1917	1946)	1923	1929	1934	1924
1916-1950	(MAX	5.62	5.12	5.87	4.59	5.63	4.17	6.82	5.36	6.14	6.49	8.16	8.49	42.53
	(													
	(	1950	1934	1929	1938	1944	1925	1921	1940	1941	1931	1945	1933	1921
	(MIN	0.60	0.05	0.05	0.03	0.19	0.00	0.37	0.04	0.26	0.45	0.24	0.35	14.28
	(		1915								1960			1960
EXTREMES	(MAX		5.37								9.75			44.15
1911-1960	(							1955		1959				
	(MIN							0.12		0.12				
CORFE	(													
MULLEN	(	1943	1923	1947	1926	1924	1935	1920	1917	1918	1949	1926	1934	1916
	(MAX	7.80	6.64	7.88	4.10	4.91	4.30	5.64	5.64	6.27	7.96	10.60	10.15	41.94
1916-1950	(													
	(	1948	1934	1929	1938	1922	1925	1921	1940	1929	1931	1933	1926	1921
	(MIN	0.78	0.04	0.16	0.03	0.63	0.00	0.32	0.00	0.51	0.79	0.88	0.54	17.84
	(						1958		1912	1960	1960		1915	1960
EXTREMES	(MAX						4.51		7.12	6.77	9.05		10.29	50.89
1911-1960	(													
	(	1914			1912	1956		1911		1959		1956		
	(MIN	0.51			0.00	0.52		0.18		0.29		0.76		
BEAMINSTER	(	1943	1923	1947	1935	1924	1935	1920	1916	1918	1928	1929	1934	1924
	(MAX	8.76	9.26	8.75	4.93	6.63	4.71	6.30	5.86	7.11	8.51	13.39	13.83	52.68
1916-1950	(													
	(	1950	1932	1938	1938	1939	1925	1934	1940	1929	1931	1933	1926	1921
	(MIN	0.65	0.04	0.23	0.19	0.70	0.01	0.24	0.10	0.42	0.51	1.04	0.63	21.29
EXTREMES	(								1912		1960			1960
1911-1960	(MAX								7.68		11.30			57.13
	(													
	(				1912			1911		1959				
	(MIN				0.12			0.14		0.06				

Table VII. Maximum Daily Rainfall, (in inches), 1916-1950, with additional maxima for the 50-year period 1911-1960

	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Southampton	1918	1923	1919	1919	1932	1917	1922	1925	1924	1935	1946	1937
1916-50 **MAX**	1.61	1.34	0.97	0.93	1.33	2.04	2.14	1.77	2.11	1.47	1.48	1.78
Other Extremes	1958									1955	1951	
1911-60 **MAX**	1.67									1.67	1.53	
***Andover**	1936	1933	1919	1950	1932	1917	1922	1922	1927	1945	1940	1916) 1919) 1938)
1916-50 **MAX**	1.34	1.67	1.14	1.04	1.77	1.84	2.20	1.64	2.65	1.43	1.51	1.15
Other Extremes										1960		1954
										2.35		1.27
Corfe Mullen	1918	1933	1922	1926	1917	1932	1922	1916	1949	1939	1935	1924
1916-50 **MAX**	1.56	2.08	1.06	1.33	1.48	1.63	2.41	2.18	2.07	2.00	2.32	1.84
Other Extremes	1958					1960			1960			
1911-60 **MAX**	1.71					1.83			2.11			
Beaminster	1927	1923	1922	1950	1932	1932	1926	1916	1946	1945	1946	1916) 1944)
1916-50 **MAX**	1.51	1.61	1.36	1.22	1.63	1.84	2.31	3.13	1.96	1.73	2.20	1.77
Other Extremes		1915					1955		1952	1915		1915
1911-60 **MAX**		1.94					4.53		3.09	1.99		2.06

* Based on 48 years only (1913-1960)

G.02824/JB/7/63/75

APPENDIX I

Intense falls of rain in 2 hours or less 1860-1960 Extracted from British Rainfall

Year	Class	Station	Riv. Div.	Date	Amount in.	Duration min.	Rate m/m
1872	N	Arlesford, Wester Court	5	July 30	1.01	30	2.02
1885	N	Emsworth, Redlands	5	" 5	1.36	50	1.63
1893	N	" "	5	" 12	.78	25	1.87
1897	R	Swarraton Rectory	5	June 24	1.42	50	1.70
"	N	Otterbourne W.W., Shawford	5	Aug. 5	1.21	60	1.21
1899	N	Botley, Hall Court	5	June 28	.70	15	2.80
"	N	Christchurch, Mudeford	3	Sep. 6	1.30	75	1.04
"	VR	Portsmouth, Milton	5	July 23	3.25	120	1.63
"	N	Christchurch, Winkton Lo.	3	Sep. 5	1.86	120	.93
1901	N	Ryde, New Lo.	1	June 30	1.05	30	2.10
"	R	Bournemouth, Kempsey	2	July 27	1.81	110	.99
1903	N	Emsworth, Redlands	5	Aug. 24	1.02	55	1.11
"	N	Batley Hill	5	Oct. 8	1.05	60	1.05
"	N	Wooton, Fernhill	1	Aug. 24	1.25	75	1.00
1906	N	Petersfield, Ditcham Pk.	5	" 2	.72	20	2.16
1908	N	Milton, Wooton Hill	4	July 13	1.33	90	.89
1910	N	Botley Hill	5	June 12	.90	25	2.16
1911	N	Oakley Rectory	4	May 10	.85	30	1.70
"	VR	Fareham, The Mount	5	" 26	3.00	60	3.00
"	VR	" , Cams Hill	5	" 26	3.22	120	1.61
"	VR	" , Roche Court	5	" 26	2.92	120	1.46
1914	R	Petersfield, Ditcham Park	5	June 14	1.75	60	1.75
1915	R	Fritham Ho.	4	July 4	1.12	20	3.36
"	R	Hustbourne Tarrant	4	June 25	1.32	30	2.64
"	R	Totland Bay, Aston Ho.	1	Sep. 24	2.00	120	1.00
1917	N	Ashley, Old Manor Ho.	4	June 28	1.41	105	.81
1920	N	Bournemouth, Vale View	2	Oct. 15	1.17	30	2.34
"	N	" , Rodney Ho.	2	" 15	1.15	30	2.30
1925	N	Calshot, Seaplane Sta.	4	May 18	.63	12	3.15
1926	N	Bournemouth, Howard Rd.	2	Apr. 14	1.52	95	.96
1927	N	Andover, Hatherden	4	July 10	.82	20	2.46
"	VR	Lyndhurst, Amesley Bank	4	" 10	2.70	90	1.80
"	VR	" , Allum Green	4	" 10	2.84	120	1.42
1929	N	Brockenhurst, Weirs End	4	" 20	1.38	85	.97
"	R	Boldre, Brattamsley Close	4	" 20	2.35	120	1.17
1933	VR	Ovington Rectory	5	June 15	2.37	60	2.37
"	R	Bartley, The Nurseries	4	" 22	2.40	90	1.60
1934	N	Lymington, Woodmancote	4	July 13	.90	30	1.80
"	R	Sway, Gordleton	4	" 13	2.07	120	1.03
"	N	Worthy Down Aerodrome	5	" 13	.93	50	1.12
1935	R	Winchester, East Hill	5	" 1	2.23	120	1.11
1938	N	Upper Somborne	4	Aug. 7	.80	30	1.60
"	R	Crawley, Chilbolton Down	4	" 7	1.95	90	1.30
"	N	Southampton, Civic Centre	5	" 7	1.00	35	1.71
1939	N	Linkenholt Manor	4	July 19	.90	30	1.80
1941	R	Fordinbridge, Oaklands	3	June 7	1.72	90	1.15
1942	N	Ryde, Esplanade Gdns.	1	Aug. 29	1.45	60	1.45
"	N	Bartley, The Nurseries	4	" 29	1.20	70	1.03
"	R	Binstead, The Quarrey	1	" 29	2.09	120	1.05

APPENDIX I (CONTINUED)

Year	Class	Station	Riv. Div.	Date	Amount in.	Duration min.	Rate m/m
1944	R	Freshwater, P. Sta.	1	Aug. 23	1.80	35	3.09
1946	N	Ringwood, Athol Lodge	2	Nov. 23	1.26	120	.63
1947	R	Ovington Rectory	5	July 14	1.80	90	1.20
1948	N	Winchester, Christ Church Rd.	5	Aug. 2	1.58	120	.79
"	N	Winchester, Beaconsfield Ho.	5	" 2	1.50	120	.75
1951	VR	Cowes W.W., Broadfields	1	July 30	2.43	45	3.24
"	N	Brockenhurst, County Sch.	4	" 22	1.20	85	.85
1953	N	Ryde, Esplanade Gdns.	1	June 30	.85	30	1.70
1954	VR	Freshwater, P. Sta.	1	Aug. 21	3.00	60	3.00
"	VR	" , W. Wight Sch.	1	" 21	2.61	60	2.61
"	N	" , W.W.	1	" 21	1.27	75	1.02
1955	N	Gosport	5	" 14	1.25	45	1.67
"	N	Ringwood, Bisterne	3	Oct. 19	1.50	120	.75
1956	R	Lymington, Waterford	4	June 11	1.45	32	2.72
"	R	" "	4	" 11	1.43	45	1.91
"	N	Milford-on-sea, Manor Rd.	4	" 11	1.36	80	1.02
"	N	" " " , Fairlight	4	" 11	1.36	90	.91
1957	N	Andover, Sewage Wks.	4	" 18	1.66	120	.83
"	N	" , W.W.	4	" 18	1.68	120	.84
"	N	" , Clarendon Ho.	4	" 18	1.63	105	.93
"	N	" , W.W.	4	July 14	1.29	40	1.93
1958	R	Curdridge, Sunnyside	5	Aug. 22	1.57	60	1.57
"	N	Hayling Island	5	Sep. 5	.80	30	1.60
1959	N	Sutton Scotney	4	July 9	1.00	20	3.00
"	N	Portsmouth, Eastney	5	July 11	1.36	120	.68
"	N	Gosport	5	" 11	1.20	120	.60
"	N	Havant, Leigh Pk. Fm.	5	" 11	1.40	120	.70
"	N	Hurn, Bournemouth Airport	2	" 10	1.22	114	.64
1960	N	" " "	2	June 22	1.62	120	.81
Dorset							
1875	N	Wimborne Minster, Chalbury	4	Sep. 9	1.00	60	1.00
1880	N	Gillingham	4	July 22	1.15	60	1.15
1899	R	"	4	Aug. 15	1.60	45	2.13
"	VR	Dorchester W.W.	3	July 22	2.56	60	2.56
1903	R	Verwood Manor	4	" 18	1.25	30	2.50
"	N	Dorchester W.W.	3	May. 28	1.03	60	1.03
1904	N	Burton, Chaffeymoor	4	Aug. 21	1.02	20	3.06
"	N	Beaminster, Fleet St.	3	Sep. 14	1.05	28	2.25
1908	R	Portland, H.M. Breakwater	3	Oct. 21	2.28	120	1.14
"	N	Upwey, Portland W.W.	3	" 21	1.65	120	.83
1924	R	Abbotsbury, West St.	3	Sep. 7	1.62	60	1.62
"	N	Lyme Regis, Boat lose	3	" 7	1.00	60	1.00
1930	R	E. Stour, Homestead	4	June 13	2.65	120	1.33
1931	N	Parkstone, St. Osmund's Rd.	3	" 1	.55	10	3.30
"	N	Abbotsbury, W. Street	3	July 7	1.20	35	2.06
"	R	Puddleton, Clyffe Ho.	3	Aug. 5	1.93	75	1.54
1932	N	Slatbridge Sch.	4	June 23	1.08	35	1.85
1934	N	Iwrne Minster	4	July 22	1.45	60	1.45
1937	N	Parkstone, Rosemead	3	Oct. 31	1.25	70	1.07
"	R	Eastern, Tophill Sch.	3	July 15	2.52	120	1.26

APPENDIX I (CONTINUED)

Year	Class	Station	Riv. Div.	Date	Amount in.	Duration min.	Rato m/m
1937	N	Poole	3	Oct. 31	1.25	100	.75
1938	N	Blandford, Bryanston Gdns.	4	Aug. 10	1.13	48	1.41
"	N	" " "	4	" 4	1.28	72	1.07
1939	R	" " Sch.	4	" 20	2.64	120	1.32
"	R	" King's Rd.	4	" 20	2.50	120	1.25
"	N	" Bryanston Gdns.	4	" 20	1.70	120	.85
1942	N	Wareham, Trigon	3	" 3	.74	15	2.96
1945	N	Beaminster, East St.	3	July 15	.65	15	2.60
1948	VR	Stalbridge, Grove Cott.	4	Aug. 8	3.94	120	1.97
1954	VR	Dorchester, Little Cheam	3	May. 13	2.32	60	2.32
1955	R	Blandford, East St.	4	July 14	1.02	15	4.08
"	N	" Bryanston	4	" 14	1.29	40	1.93
"	N	Gillingham	4	" 12	1.26	80	.95
1955	R	Weymouth, Westham	3	July 18	2.50	90	1.67
"	R	Shaftesbury, Mod. Sch.	4	" 13	2.39	90	1.59
"	VR	Abbotsbury, West St.	3	" 18	2.92	120	1.46
"	R	Chickerell, Lr. Putton	3	" 18	2.00	120	1.00
"	R	Dorechester, S. Court Ave.	3	" 18	2.00	120	1.00
"	N	Poole, Pitwines Gas Wks.	3	Oct. 19	1.50	120	.75
1957	N	Upwey, Elwell	3	June 18	1.10	60	1.10
1958	N	Dorcester, Queens Ave.	3	Sep. 22	.73	20	2.19
1960	N	Beaminster	3	Oct. 23	1.40	60	1.40
Wilts							
1865	R	Trowbridge, Holbrook Fm.	1	July 6	1.25	20	3.75
1871	R	" , Sunnyside	1	Aug. 13	1.53	60	1.53
1875	VR	" "	1	July 22	2.53	60	2.53
1878	VR	Pewsey	3	" 23	2.68	105	1.53
1893	N	Devizes, Co. Asylum	1	June 14	.99	20	2.97
"	N	Bishops Cannings	3	" 14	1.35	60	1.35
1896	N	Devizes, Co. Asylum	1	July 7	.80	30	1.60
1897	VR	Warminster, Rye Hill	3	" 20	2.75	80	2.06
1898	N	Bishops Cannings	3	June 24	.75	15	3.00
"	N	Salisbury, Tintinhull	3	May 24	1.28	60	1.28
1899	N	Alderbury	3	June 28	1.17	60	1.17
1901	N	Calne, Calstone Vic.	1	July 13	1.12	60	1.12
"	N	Broadchalke Vic.	3	" 29	1.31	90	.87
1905	N	Bishops Cannings	3	Aug. 15	1.52	120	.76
1910	R	Salisbury, Brown St.	3	June 5	2.00	75	1.60
1911	N	Coraley, Sturford Head	1	July 21	.99	45	1.32
"	N	Cholderton Rectory	3	Aug. 21	1.29	60	1.29
"	R	Stratford-sub-Castle	3	" 21	2.01	90	1.34
"	R	Collingbourne, Kingston	3	" 21	2.00	120	1.00
1913	N	Bishops Cannings	3	" 16	1.77	120	.89
1915	N	Salisbury Plain, Shrewton	3	" 12	.80	20	2.40
"	N	Codford St. Mary, Stockton Ho.	3	June 27	1.51	70	1.29
1918	N	Kilmington Rectory	2	Sep. 5	1.00	20	3.00
"	N	Corsley, Sturford Mead	1	" 5	1.23	50	1.47
"	R	Salisbury Plain, Shrewton	3	July 20	1.59	60	1.59
1920	N	Kilmington Rectory	2	" 3	1.75	105	1.00
"	R	Westbury Vic.	1	" 12	1.91	40	2.87
1927	R	Westbury, Cambridge Ho.	1	" 12	1.73	40	2.59
1930	N	Westbury Vic.	1	June 13	1.03	45	1.37

APPENDIX I (CONTINUED)

Year	Class	Station	Riv. Div.	Date	Amount in.	Duration min.	Rate m/m
1930	N	Westbury, Cambridge Ho	1	June 13	.92	45	1.23
"	N	Devizes, Highclere	1	" 13	1.38	120	.69
1931	R	Salisbury, Harnham	3	Aug. 4	1.40	25	3.36
"	N	Kilmington Rec.	2	July 13	1.00	30	2.00
"	N	Salisbury, Manor Rd	3	Aug. 4	.91	30	1.82
"	N	Kilmington Rec.	2	June 14	1.02	45	1.36
"	R	Woodford Vic.	3	Aug. 4	2.17	90	1.45
1932	N	Amesbury, Boscombe Down	3	July 13	1.00	54	1.11
1933	N	Warminster, Henford	3	Aug. 11	.75	20	2.25
"	VR	Chippenham, Monkton Pk.	1	Sep. 26	4.31	120	2.15
1934	R	Trowbridge, Town Hall	1	" 15	1.25	10	7.50
"	N	" " "	1	July 12	1.15	60	1.15
1935	N	" " "	1	June 25	.94	29	1.95
"	VR	Melksham, Beechfield	1	" 25	2.50	60	2.50
"	R	Bishops Cannings	3	" 25	1.70	60	1.70
"	R	Devizes, Broadleas	1	" 25	1.87	80	1.40
"	VR	Seend, Ferrum Towers	1	" 25	2.85	105	1.63
"	N	Amesbury, Boscombe Down	3	July 11	1.00	54	1.11
1936	N	Woodford Vic.	3	June 18	.92	50	1.10
1936	N	Trowbridge, Town Hall	1	June 29	1.02	60	1.02
1938	R	Bishops Cannings	3	Aug. 9	1.44	45	1.92
"	R	Warminster, Henford	3	" 12	2.12	110	1.16
1939	N	Kilmington Rec.	2	July 17	.76	22	2.07
"	N	Westbury, Braemar	1	" 21	.92	30	1.84
1940	N	Longford Castle Gdns.	3	Nov. 13	1.36	105	.78
1942	N	Aldbourne Manor Ho.	3	Aug. 29	1.03	45	1.37
"	N	Bishops Cannings	3	" 29	1.25	120	.63
1944	N	Bishops Cannings	3	" 23	1.34	120	.67
"	N	Amesbury, Boscombe Down	3	" 23	.80	30	1.60
1946	VR	Salisbury, Manor Rd.	3	June 23	2.04	40	3.06
"	VR	" Atherton Ho.	3	" 23	2.12	50	2.54
1948	N	Trowbridge, Town Hall	1	May 11	1.44	75	1.15
1949	R	Gt. Somerford, The Beeches	1	Aug. 27	2.06	80	1.55
1950	N	Lyneham A/fd	1	May 21	1.06	60	1.06
1952	VR	Worton, The Grange	1	Aug. 15	2.27	45	3.03
"	N	Porton, C.D.E.E.	3	May 19	.91	30	1.82
1954	N	Westbury, Braemar	1	Aug. 12	.56	10	3.36
"	N	Salisbury, Manor Rd.	3	May 13	1.30	55	1.42
"	N	" Sewage Wks	3	" 13	.75	24	1.87
1955	N	Market Lavington, Chestnut Cott.	1	June 8	1.15	90	.77
1956	N	Salisbury, Atherton Ho.	3	July 16	1.20	45	1.60
"	N	Malmesbury, Elm Leaze	1	July 17	1.10	60	1.10
"	N	Larkhill, Sch. of Artillery	3	Aug. 29	1.32	90	.88
1958	N	Devizes Grammor Sch.	1	" 22	1.07	30	2.14
"	N	Salisbury Sew. Wks.	3	" 19	1.17	60	1.17
1960	N	Porton, C.D.E.E.	3	June 22	.81	33	1.47
"	N	Lyneham A/fd	1	" 22	1.50	120	.75

Key. N = Noteworthy
R = Remarkable
VR = Very Rare

River divisions:-

Hants.	1	Isle of Wight
	2	Stour
	3	East Avon
	4	Test and Solent
	5	Itchen and Spithead
Dorset	3	Frome and C
	4	Stour
	5	East Avon
Wilts.	1	Lower Avon
	2	Stour
	3	East Avon
	4	Test

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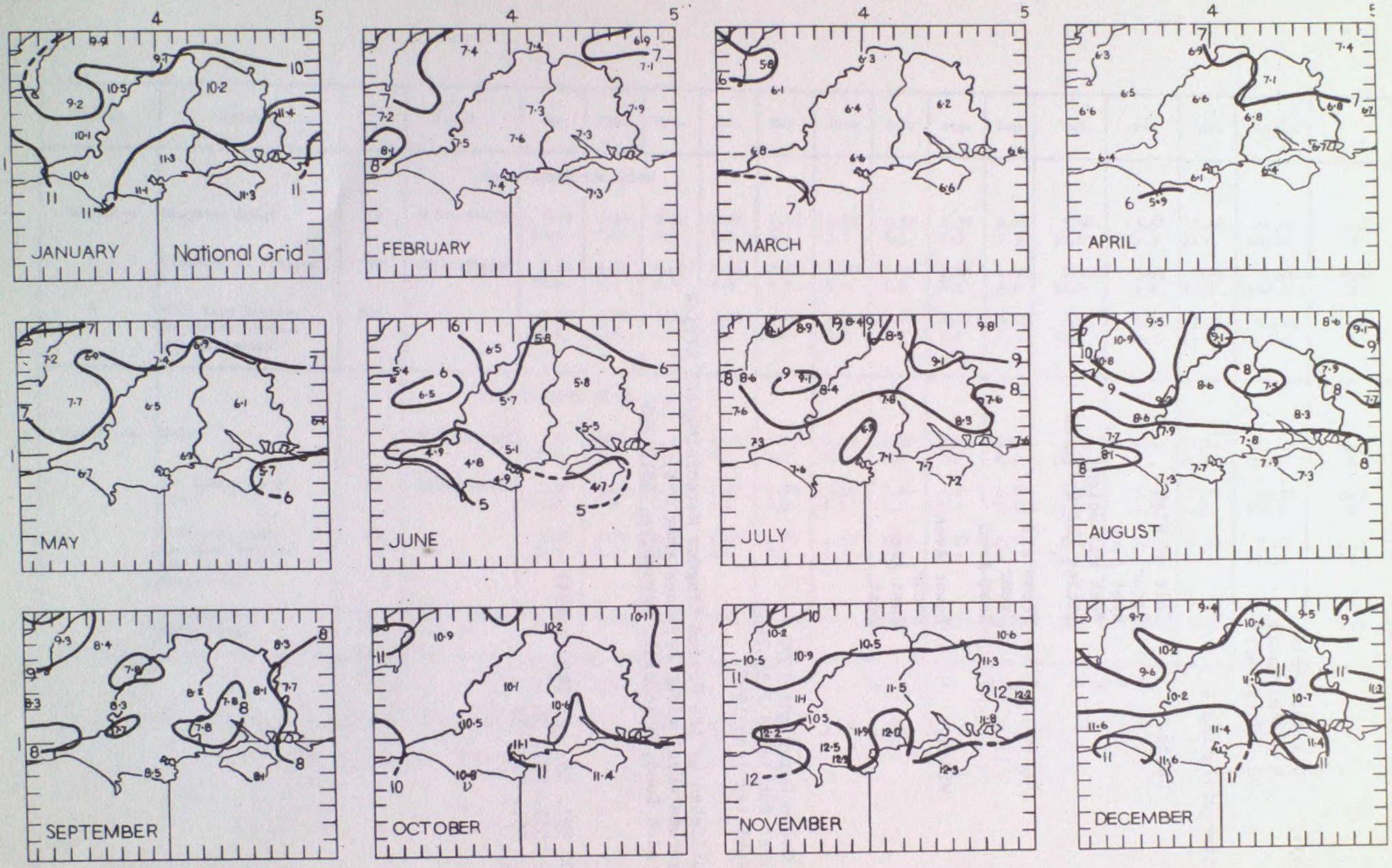

Fig 1 Average Monthly Rainfall as a percentage of Average Annual Rainfall 1916—50

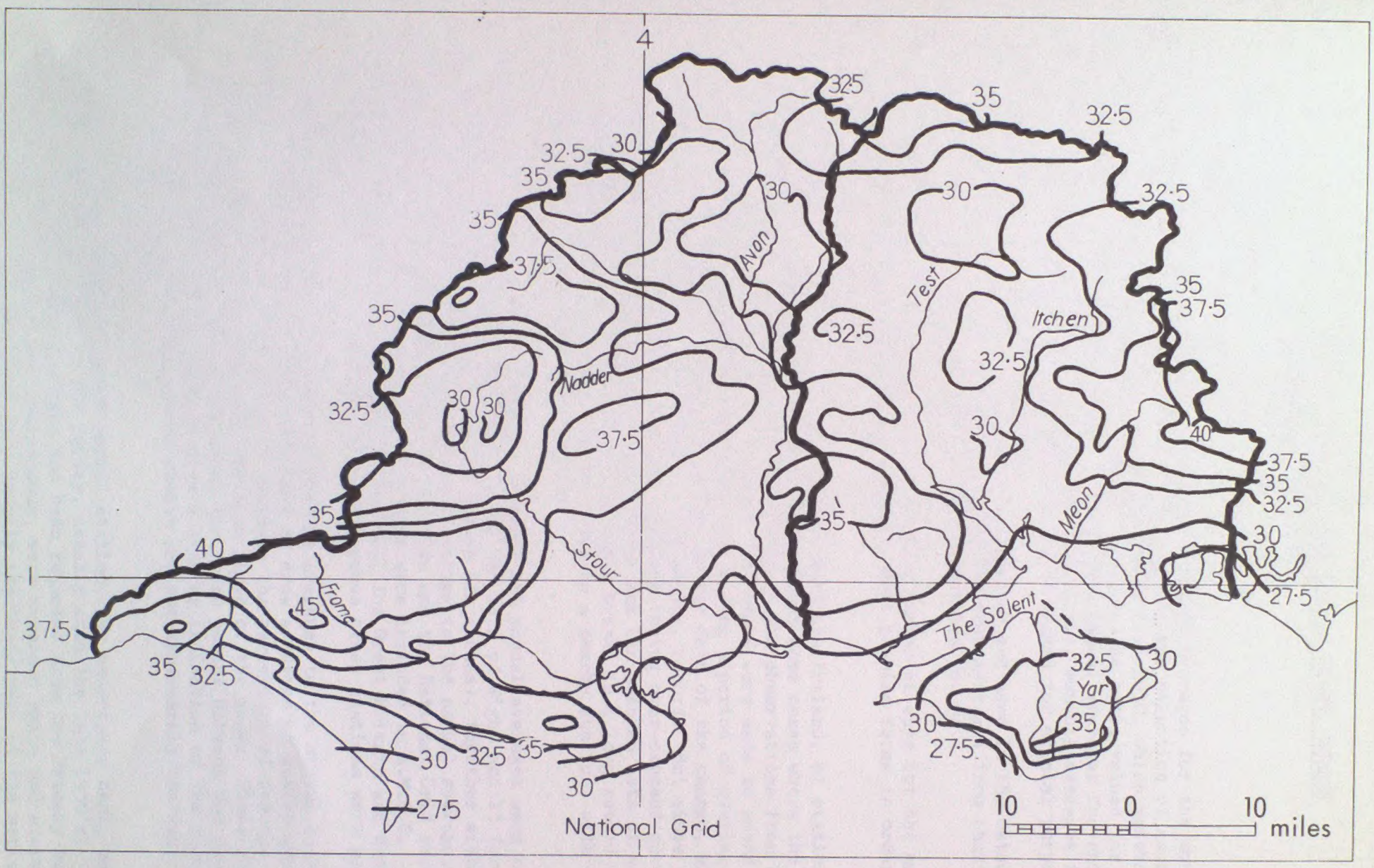

Fig 2 Average Annual Rainfall 1916—50, (in inches) over the River Board areas of ① Hampshire ② Isle of Wight ③ Avon and Dorset